

PREFACE

The North Dakota Hydrology Manual has been prepared to assist those who are planning and designing measures for soil and water conservation practices and flood prevention measures in North Dakota. The manual includes the necessary basic data for determining hydrologic factors and developing a design discharge for a given site and intended purpose. The procedures in the manual are based on Soil Conservation Service standard hydrologic procedures which have been specifically adapted for use in North Dakota. The methods in the manual are for developing hydrology for on-farm conservation practices, watershed projects, Resource Conservation and Development project measures, and River Basin Studies. This manual is based on the latest technical procedures available in the Soil Conservation Service.

Every effort has been made to make this Hydrology Manual as useful as possible. National Engineering Handbook, Section 4, gives a complete explanation of the Soil Conservation Service hydrology procedures. Other Soil Conservation Service hydrology references are:

1. Engineering Field Manual.
2. Technical Release No. 55, "Urban Hydrology for Small Watersheds."
3. SCS-TP-149, "A Method for Estimating Volume and Rate of Runoff in Small Watersheds."

The North Dakota Hydrology Manual was developed under the guidance of Allen Fisk, State Conservationist and A. Richard Moum, State Conservation Engineer, and was compiled and prepared by Jerry Spaeth, Hydrologist, Soil Conservation Service, U.S.D.A., Bismarck, North Dakota. Each of the following contributed to the development of the manual.

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